FlyBy Math™ Alignment
To the Supplement to the Massachusetts Mathematics Curriculum Framework Grade-Level Standards, May 2004

Patterns, Relations, and Algebra Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	***FlyBy Math*™ Activities**
5.P.4 Represent real situations and mathematical relationships with concrete models, tables, graphs, and rules in words and with symbols, e.g., input-output tables.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.
5.P.5 Solve problems involving proportional relationships using concrete models, tables, graphs, and paper-pencil methods.	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.
5.P.6 Interpret graphs that represent the relationship between two variables in everyday situations.	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.

Geometry Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	***FlyBy Math*™ Activities**
5.G.4 Using ordered pairs of whole numbers (including zero), graph, locate, and identify points, and describe paths on the Cartesian coordinate plane.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Data Analysis, Statistics, and Probability Strand

Students engage in problem solving, communicating, reasoning, connecting, and representing as they:

Grade-Level Standard	***FlyBy Math*™ Activities**
5.D.2 Construct and interpret line plots, line graphs, and bar graphs. Interpret and label circle graphs.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes. --Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.